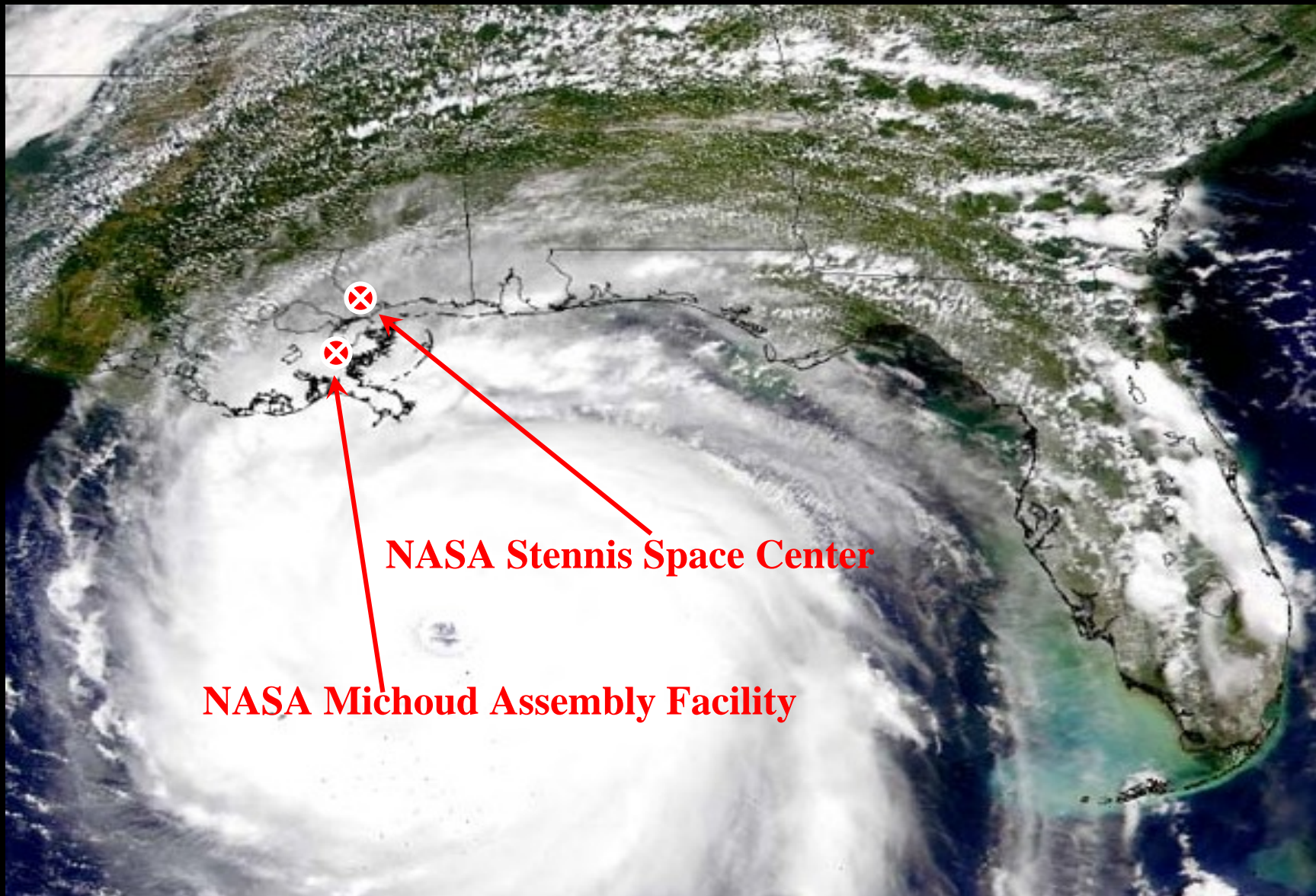


A satellite image of Hurricane Katrina, showing a large, well-defined eye and a dense, swirling cloud structure. The hurricane is positioned over the Gulf of Mexico, with the coastline of the United States visible in the background. The text "In the Eye of the Storm" is overlaid in red, bold, serif font.

In the Eye of the Storm

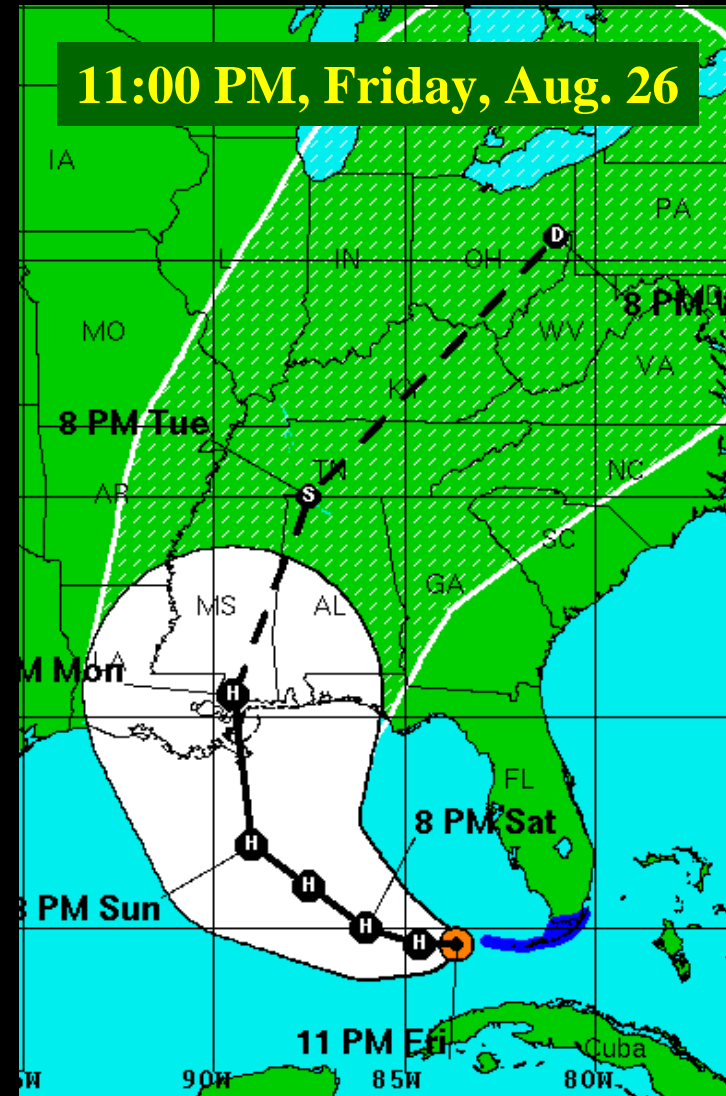
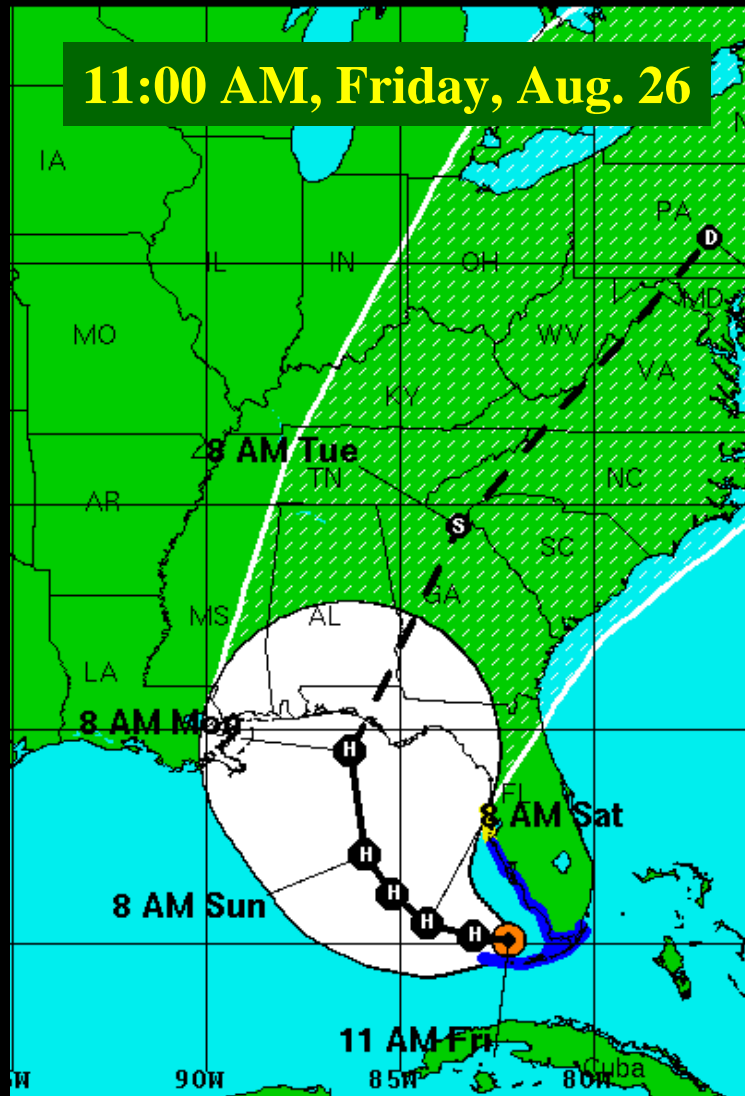
Hurricane Katrina



NASA Stennis Space Center

NASA Michoud Assembly Facility

Projected Path of Hurricane Katrina



Landfall August 29, 2005

Wind speed 170 mph

Eye passing over SSC at 9:45 a.m.

The Recovery Effort

Emergency Operations Center

- HQ established E.O.C. led by Clint Hebert
August 30, 2005
- NASA Senior Official for Hurricane Recovery was
Bill Parsons
- E.O.C. moved to MSFC – led by Pete Allen
 - Daily telecons with MAF & SSC
 - Eventually telecons moved to every other day

NASA Staffing Operations



Employee Call Center



NASA Michoud Assembly Facility

External Tank Manufacturing Facility



External Tank Final Check Facility



Hydrogen Tank Proof Test Facility

NASA Michoud Assembly Facility



Helicopter Support to MAF



MAF Water Purification Unit



Response to Katrina

- FEMA/MEMA are the lead agencies
- All operate under a Unified Command
- Primary responders:
 - The Mississippi Emergency Management Agency (MEMA)
 - Florida Division of Forestry IMT
 - USDA Forest Service California IMT3
 - Military



California Incident Management Team (CIMT3) Assigned Tasks

- Receive into Stennis Space Center and Stennis International Airport then distributed to the 6-county areas: MREs, water and ice
- Warehouse and distribute other commodities such as baby food, diapers, tarps, etc.
- Create base camps to support emergency workers, military, and truckers.



Receive and Distribute Supplies



NASA Stennis Space Center



Over a 4 week period
249,900 meals were served

Response Medical Clinic

30 Days Post Katrina

- Serviced 1,804 patients or three times the volume for same period one year earlier:
 - Transferred from SSC to hospital 31
 - Immunizations SSC/Outreach 5137
(Tetanus & Hep A)
 - Immunizations to Michoud 460
(Tetanus & Hep A)
- Addressed health issues ranging from: nausea, lacerations/fractures, animal/insect bites, dental and orthopedics

Post-Katrina Industrial Hygiene (IH) Efforts

- Joint Industrial Hygiene Task Force surveyed all NASA-owned buildings
 - Over 240 assessments conducted to determine extent of facility and water damage
 - Identified potential asbestos issues within damaged buildings
 - Identified 58 water/mold damaged buildings with potential health concerns
 - Nine (9) NASA-owned buildings required mold remediation; six (6) completed as of 17 January 2006
- Provided information and awareness training for SSC personnel
 - Mold awareness, including respirator training, fit tests and use for Outreach workers
 - Coordinated chain saw safety course
 - Established informative media links related to mold awareness/hurricane recovery/safety & health; i.e., SSC NASA TV, dedicated phone line, information booths, SSC website
- Provided IH surveillance and personal protective equipment for post-hurricane recovery efforts
- Conducted public health surveys at SSC Shelters to ensure occupant safety and health
- Conducted numerous food service inspections to ensure compliance
- Surveyed radiation sources to ensure accountability
- Ensure safe drinking water quality

Help from Other Centers

- **HQ EOC** – Overall coordination for the Agency including managing the medical/IH relief teams.
- **ARC** – Communications support and reverse osmosis purification unit to produce potable water for MAF
- **GSFC** – Sent a truckload of employee donated supplies and material for the NASA team members impacted by the storm. These were staged at SSC for distribution to all NASA team members in the area (SSC & MAF).
- **GRC** – Took the lead as the procuring element for all fuel purchases
- **JSC** – Provided medical team/IH assistance, relief teams for security, & communications equipment. Served as the “air boss” for all Agency air operations in the area, including managing all NASA flights into and out of Stennis International airport. Also coordinated all offers of housing from around the Agency for displaced NASA team members and their families.
- **KSC** – Provided medical team/IH assistance and medical supplies, relief teams for security, critical supplies and materials (high voltage breakers & roof netting to protect the ET’s), high voltage electricians, & several truck loads of supplies and materials donated by KSC employees for NASA team members and their families.
- **LaRC** – Provided medical team/IH assistance & medical supplies. Also, sent a truckload of employee donated supplies and material for the NASA team members impacted by the storm.
- **MSFC** – Provided early communications equipment and security teams by helicopter to ensure integrity of the MAF facilities. Provided Army helicopter to support MAF while cut off by water. Provided an engineering Damage Assessment Team (DAT) to MAF to ensure a thorough evaluation of facility damage. Served as the logistics coordination point for all Agency support to MAF and SSC. Provided medical team/IH assistance and medical supplies, and was the procuring site for all supplies and materials with the exception of fuels. Provided administrative relief workers for both SSC and MAF. Served as alternate COOP site for MAF management. Provided 24X7 EAP assistance through a 1-800 call center. Also provided onsite EAP assistance at MAF. MSFC also sent multiple truck loads of supplies and materials donated by MSFC employees for NASA team members and their families.
- **DFRC** – Provided EAP onsite support and supplies to employees.

Waveland, MS

